

14166

OUTPUT 12

MEM. STRG. USED 02207

03700 THRU 06105

07000 THRU 07000

LOK	INSTR	L1ID	LO
		0	MAIN
		1	PROG*1219B*FACT*OCT*67
		2	REMARK*1219B FACT MODIFIED FROM 1219 FACT
		3	REMARK*MAIN MEMORY TEST
03700	50 7201	4	ENTICR*01
03701	46 3732	5	STRAU*TEMP1
03702	44 5415	6	STRAL*ALPARM
03703	52 3737	7	SLCL*IDEX
03704	44 3731	8	STRAL*TEMP
		9	
03705	76 6012	10	RJP*TYPE
03706	12 5415	11	ENTAL*ALPARM
03707	65 3711	12	JPALP*LOK+2
03710	76 6065	13	RJP*IOSET
03711	40 5320	14	CL*SRBANK
03712	40 5321	15	CL*BANK
03713	70 0001	16	ENTALK*0001
03714	44 5322	17	STRAL*BANK1
		18	
03715	32 3731	19	ENTB*TEMP
03716	13 3735	20	ENTALB*ITNAL
03717	44 4144	21	STRAL*WIRE3
03720	32 3732	22	ENTB*TEMP1
03721	13 3737	23	ENTALB*IDEX
03722	44 5317	24	STRAL*BLMN
03723	12 3733	25	ENTAL*UNO
03724	44 5377	26	STRAL*PAR
		27	
03725	44 4644	28	STRAL*RWEX3
03726	12 3734	29	ENTAL*FNL
03727	44 5400	30	STRAL*PAR1
03730	34 3747	31	JP*CRANK1

SAVE INDEX  
SAVE INITIAL AL INPUT PARAMETER  
000001  
SAVE

TYPT AND TYPC SETUP  
INITIAL AL INPUT PARAMETER  
NON N+1 BUFFER TERMINATION  
N+1 BUFFER TERMINATION SETUP  
PRESTORE SRBANK BANK BANK1

CONSIDER CONTROL MEMORY SIZE

CONSIDER MAIN MEMORY SIZE

SET UP TO TEST BANK 1 INITIALLY  
LOWER LIMIT

LOWER LIMIT FOR RANDOM WORD  
UPPER LIMIT

03731	00	0000	34	TEMP	0*0
03732	00	0000	35	TEMP1	0*0
03733	00	7777	36	UNO	00*7777
03734	01	7777	37	FNL	01*7777
03735	55	4120	40	ITNAL	IJP*WIRE
03736	12	4156	41		ENTAL*WARE1
03737	00	0001	42	IDEX	00*0001
03740	00	0003	43		00*0003
03741	00	0005	44		00*0005
03742	00	0007	45		00*0007
03743	00	0011	46		00*0011
03744	00	0013	47		00*0013
03745	00	0015	50		00*0015
03746	00	0017	51		00*0017
03747	50	7201	52	CRANK1	ENTICR*01
03750	50	5020	53		SKP*20
03751	34	3753	54		JP*HEAD
03752	34	4165	55		JP*TEST
03753	30	3754	56	HEAD	TYPT*\$CR\$MAIN MEMORY TEST
03754	00	5416			
03755	76	5541			
03756	51	5600			
03757	55	4555			
03760	20	6271			
03761	00	6445			
03762	63	6477			
03763	70	0001	57	HEAD1	ENTALK*1
03764	14	4021	60		ADDAL*COUNT
03765	44	4021	61		STRAL*COUNT
03766	02	4022	62		CMAL*NUMB
03767	63	4165	63		JPNOT*TEST
03770	40	4021	64		CL*COUNT
03771	50	5020	65		SKP*20
03772	34	3774	66		JP*LOK+2
03773	34	4006	67		JP*DOWN
03774	12	4023	70		ENTAL*BAER

SET R TO 1  
 SET KEY 4 TO SUPPRESS TYPEOUTS  
 NOT SET-TYPE OUT  
 SET GO TO TEST

UPDATE COUNT

FINISHED 10 CYCLES  
 NOPE  
 YES CLEAR COUNT FOR NEW START  
 KEY 4, SET TO SUPPRESS TYPE OUTS

CHECK ERROR FLAG

03775	63 4012	71		JPALNZ*RECYL	TYPEOUT RECYCLE
03776	30 3777	72	HEAD2	TYPT*\$CR\$END 10 CYCLES\$CR\$	
03777	00 5416				
04000	76 4556				
04001	44 0021				
04002	20 0043				
04003	71 4354				
04004	45 6376				
04005	77 7777				
04006	50 5610	73	DOWN	STOP*10	END TEST
04007	50 5004	74	UP	SKP*04	SET SKIP2 TO STAY IN TEST
04010	55 3677	75		IJP*MAIN-1	NOT SET-EXIT
04011	34 3763	76		JP*HEAD1	SET, GO TO CYCLE COUNT
04012	30 4013	77	RECYL	TYPT*\$CR\$RECYCLE	
04013	00 5416				
04014	76 6245				
04015	43 7143				
04016	54 4577				
04017	40 4023	100		CL*BAER	CLEAR ERROR FLAG
04020	34 4006	101		JP*DOWN	
04021	00 0000	102	COUNT	0*0	
04022	00 0013	103	NUMB	00*13	
04023	00 0000	104	BAER	0*0	
		105	ERR0UT	PR0G*CASEY*8JUNE64	
04024	00 0000	106	ERR0UT	0*0	ENTRY
04025	72 4116	107		STRICR*\$F	SAVE ICR
04026	50 7202	110		ENTICR*2	SET B TO 2
04027	30 4030	111	ERR1	TYPT*\$CR\$ERROR	
04030	00 5416				
04031	76 4562				
04032	62 2062				
04033	77 7777				
04034	30 4035	112	ERR2	TYPT*\$CR\$LAST ADDRESS 1ST ADDRESS	CORRECT INCORRECT
04035	00 5416				
04036	76 5441				
04037	63 6400				

04040 41 4444  
 04041 62 4563  
 04042 63 0021  
 04043 63 6400  
 04044 41 4444  
 04045 62 4563

04046 63 0000  
 04047 00 4320  
 04050 62 6245  
 04051 43 6400  
 04052 51 5643  
 04053 20 6262  
 04054 45 4364  
 04055 77 7777

04056 70 7777 113  
 04057 44 4023 114  
 04060 30 4061 115  
 04061 00 5652  
 04062 10 0076  
 04063 60 5410  
 04064 10 0000  
 04065 10 0000

04066 10 0000  
 04067 10 0000  
 04070 10 0000  
 04071 10 0000  
 04072 60 5411  
 04073 10 0000  
 04074 10 0000  
 04075 10 0000

04076 10 0000  
 04077 10 0000  
 04100 10 0000  
 04101 10 0000  
 04102 10 0000  
 04103 10 0000  
 04104 00 0000

TL1

ENTALK\*7777

STRAL\*BAER

TYPc\*\$CR\$\*HERE\* \* \* \* \* \*THERE\* \* \* \* \* \*

ERROR SET

ERROR FLAG

04105	30	4106	116	TL2	TYPC*DIP* * * *DIP+1	
04106	00	5652				
04107	60	5406				
04110	10	0000				
04111	10	0000				
04112	10	0000				
04113	60	5407				
04114	00	0000				
04115	50	5604	117		STOP*04	STOP AFTER TYPEOUT
04116	50	7200	120	SF	ENTICR*0	RESTORE B REG
04117	55	4024	121		IJP*ERRHOUT	BACK
			122	WIRE	PROG*MUELLER*10CT64	
04120	00	0000	123	WIRE	0*0	
04121	42	4156	124		STRB*WARE1	CHECK FOR 128 CONTROL MEMORY
04122	12	4156	125		ENTAL*WARE1	
04123	02	4164	126		CMAL*LARGST	IS B LARGE ENOUGH
04124	65	4155	127		JPMLEQ*WURE3	YES EXIT
04125	12	4156	130		ENTAL*WARE1	CHECK FOR B LESS THAN PIE
04126	02	4157	131		CMAL*LEAST	
04127	65	4132	132		JPMLEQ*WIRE4	
04130	32	4157	133		ENTB*LEAST	
04131	55	4120	134		IJP*WIRE	
04132	12	4156	135	WIRE4	ENTAL*WARE1	B IN CONTROL MEMORY
04133	53	4160	136		SLCP*WARE2	B IN CONTROL MEMORY
04134	63	4137	137		JPALNZ*WARE3	NO
04135	37	0100	140		ENTBKB*0100	YES
04136	55	4120	141		IJP*WIRE	RETURN TO PROGRAM
04137	12	4156	142	WARE3	ENTAL*WARE1	CHECK FOR WIRED MEMORY
04140	53	4161	143		SLCP*WIRE2	IS IT WIRE
04141	63	4144	144		JPALNZ*WIRE3	NO
04142	37	0040	145		ENTBKB*0040	YES
04143	55	4120	146		IJP*WIRE	RETURN TO MAIN PROG
04144	12	4156	147	WIRE3	ENTAL*WARE1	CHECK FOR 256 CONTROL MEMORY
04145	53	4162	150		SLCP*WORE2	B IN 400
04146	63	4151	151		JPALNZ*WORE3	NO
04147	37	0140	152		ENTBKB*0140	YES ADD 140 TO B

04150	55	4120	153		IJP*WIRE	RETURN TO MAIN PROG
04151	12	4156	154	WORE3	ENTAL*WARE1	B IN 600
04152	53	4163	155		SLCP*WURE2	
04153	63	4155	156		JPALNZ*WURE3	NO
04154	37	0100	157		ENTBKB*0100	
04155	55	4120	160	WURE3	IJP*WIRE	RETURN TO MAIN PROG
04156	00	0000	161	WARE1	0*0	TEMP STORAGE FOR B
04157	00	0100	162	LEAST	00*0100	
04160	00	0200	163	WARE2	00*0200	MASK FOR LOWER CONTROL MEMORY
04161	00	0500	164	WIRE2	00*0500	MASK FOR WIRED MEMORY
04162	00	0400	165	WORE2	00*0400	MASK FOR LOWER 256 CONTROL MEMORY
04163	00	0600	166	WURE2	00*0600	MASK FOR UPPER 256 CONTROL MEMORY
04164	00	0700	167	LARGST	00*0700	
			170	TEST	PROG*CASEY*8JUNE64	
04165	50	7201	171	TEST	ENTICR*01	
04166	32	5377	172		ENTB*PAR	LOWER LIMIT TO B FOR HOLD ZEROS
04167	56	5400	173		BSK*PAR1	HAVE ALL ADDRESSES BEEN CLEARED
04170	34	4172	174		JP*HDO	NO GO TO HOLD ZERO S/R
04171	34	4177	175		JP*HOCK	YES CHECK FOR ZERO HOLD
04172	76	4120	176	HDO	RJP*WIRE	TEST FOR WIRE OR CONTROL
04173	50	7310	177		ENTSR*10	
04174	41	0000	200		CLB*0	SET ADDRESS TO ZERO
04175	75	5414	201		STRSR*JVV	
04176	34	4167	202		JP*TEST+2	UPDATE ADDRESS
04177	32	5377	203	HOCK	ENTB*PAR	
04200	56	5400	204		BSK*PAR1	HAVE ALL ADDRESSES BEEN CHECKED
04201	34	4203	205		JP*LOK+2	NO KEEP CHECKING
04202	34	4243	206		JP*HDI	YES GO TO NEXT S/R
04203	76	4120	207		RJP*WIRE	TEST FOR WIRE OR CONTROL
04204	50	7310	210		ENTSR*10	
04205	13	0000	211		ENTALB*0	ENTER ADDRESS INTO AL
04206	75	5414	212		STRSR*JVV	
04207	63	4211	213		JPALNZ*LOK+2	CORRECT NO GO TO ERROR DISPLAY
04210	34	4200	214		JP*HOCK+1	YES KEEP CHECKING
04211	10	5401	215		ENTAU*PAT	ERROR CORRECT IN AU
04212	46	5406	216		STRAU*DIP	SAVE FOR TYPEOUT

04213 44 5407 217  
 04214 50 5601 220  
 04215 42 5410 221

04216 12 5410 222  
 04217 50 5601 223  
 04220 50 5020 224  
 04221 76 4225 225  
 04222 50 5001 226  
 04223 34 4200 227  
 04224 34 4165 230  
 04225 00 0000 231

PROOF

04226 42 5411 232  
 04227 56 5400 233  
 04230 34 4233 234  
 04231 76 4024 235  
 04232 55 4225 236  
 04233 76 4120 237  
 04234 50 7310 240  
 04235 13 0000 241

04236 75 5414 242  
 04237 02 5406 243  
 04240 61 4231 244  
 04241 42 5411 245  
 04242 34 4227 246

04243 32 5377 247  
 04244 56 5400 251

HD1  
 HD1

04245 34 4247 252  
 04246 34 4255 253  
 04247 76 4120 254  
 04250 12 5402 255  
 04251 50 7310 256  
 04252 45 0000 257  
 04253 75 5414 260  
 04254 34 4244 261

HLD1

04255 32 5377 262

HICK

STRAL\*DIP+1  
 STOP\*01  
 STRB\*HERE

ENTAL\*HERE  
 STOP\*01  
 SKP\*20  
 RJP\*PROOF  
 SKP\*01  
 JP\*HOCK+1  
 JP\*TEST  
 0\*0

STRB\*THRE  
 BSK\*PAR1  
 JP\*LOK+3  
 RJP\*ERR0UT  
 IJP\*PROOF  
 RJP\*WIRE  
 ENTSR\*10  
 ENTALB\*0

STRSR\*JVW  
 CMAL\*DIP  
 JPEQ\*PROOF+4  
 STRB\*THRE  
 JP\*PROOF+2  
 PROG\*CASEY\*9JUNE64  
 ENTB\*PAR  
 BSK\*PAR1

JP\*HLD1  
 JP\*HICK  
 RJP\*WIRE  
 ENTA\*PAT1  
 ENTSR\*10  
 STRALB\*0  
 STRSR\*JVW  
 JP\*HD1+1

ENTB\*PAR

SAVE FOR TYPEOUT  
 STOP KEY 0 FOR ERROR DISPLAY  
 SET FAILING ADDRESS IN AL

SAVE ADDRESS  
 DISPLAY ADDRESS IN AL  
 TYPEOUT SUPPRESSED  
 NO GO TO ERROR TYPEOUT  
 SET SKIP KEY 0 TO REPEAT TEST  
 NOT SET CONTINUE TEST  
 SET RECYCLE SR

SAVE B COUNT  
 KEEP CHECKING  
 GO

GO BACK TO SR  
 CHECK FOR WIRED AND CONTROL MEMORY  
 ENTER CELL CONTENTS IN AL

IS IT CORRECT  
 LAST ONE WRONG  
 YEP  
 FINISH THE CHECK

LIMIT TO B FOR HOLD ONES  
 HAVE ALL ADDRESSES BEEN LOADED

NO GO TO LOAD S/R  
 YES-CHECK LOAD  
 TEST FOR WIRE OR CONTROL  
 ALL ONES

GO BACK AND CHECK LOAD

LOWER LIMIT TO B

04256 56 5400 263  
 04257 34 4261 264  
 04260 34 4304 265  
 04261 76 4120 266  
 04262 50 7310 267

BSK\*PAR1  
 JP\*LOK+2  
 JP\*HALT  
 RJP\*WIRE  
 ENTSR\*10

HAVE ALL ADDRESSES BEEN CHECKED  
 NO KEEP CHECKING  
 YES-GO TO NEXT S/R  
 TEST FOR WIRE OR CONTROL

04263 13 0000 270  
 04264 75 5414 271  
 04265 02 5402 272  
 04266 63 4270 273  
 04267 34 4256 274  
 04270 10 5402 275  
 04271 46 5406 276  
 04272 44 5407 277

ENTALB\*0  
 STRSR\*JVW  
 CMAL\*PAT1  
 JPNOT\*LOK+2  
 JP\*HICK+1  
 ENTAU\*PAT1  
 STRAU\*DIP  
 STRAL\*DIP+1

ENTER ADDRESS INTO AL

CHECK FOR CORRECT LOAD  
 INCORRECT GO TO ERROR DISPLAY  
 CORRECT CHECK NEXT ADDRESS  
 CORRECT TO AU  
 SAVE FOR TYPEOUT  
 SAVE ERROR FOR TYPEOUT

04273 50 5601 300  
 04274 42 5410 301  
 04275 12 5410 302  
 04276 50 5601 303  
 04277 50 5020 304  
 04300 76 4225 305  
 04301 50 5001 306  
 04302 34 4256 307

STOP\*01  
 STRB\*HERE  
 ENTAL\*HERE  
 STOP\*01  
 SKP\*20  
 RJP\*PROOF  
 SKP\*01  
 JP\*HICK+1

STOP KEY 0 FOR ERROR DISPLAY  
 SET FAILING ADDRESS IN AL  
 SAVE ADDRESS  
 DISPLAY ADDRESS IN AL  
 SET KEY 4 TO SUPPRESS TYPEOUTS  
 NO GO TO ERROR TYPEOUT  
 SET SKIP KEY 0 TO REPEAT TEST  
 CONTINUE TEST

04303 34 4243 310  
 04304 32 5377 312  
 04305 56 5400 313  
 04306 34 4310 314  
 04307 34 4316 315  
 04310 76 4120 316  
 04311 12 5403 317

HALT  
 HALT

JP\*HD1  
 PROG\*CASEY\*9JUNE64  
 ENTB\*PAR  
 BSK\*PAR1  
 JP\*ALT1  
 JP\*ATICK  
 RJP\*WIRE  
 ENTAL\*PAL1

SET RECYCLE S/R

04312 50 7310 320  
 04313 45 0000 321  
 04314 75 5414 322  
 04315 34 4305 323  
 04316 32 5377 324  
 04317 56 5400 325  
 04320 34 4322 326  
 04321 34 4345 327

ATICK

ENTSR\*10  
 STRALB\*0  
 STRSR\*JVW  
 JP\*HALT+1  
 ENTB\*PAR  
 BSK\*PAR1  
 JP\*LOK+2  
 JP\*HALT0

TEST FOR WIRE OR CONTROL



04322 76 4120 330  
 04323 50 7310 331  
 04324 13 0000 332  
 04325 75 5414 333  
 04326 02 5403 334  
 04327 63 4331 335

RJP\*WIRE  
 ENTSR\*10  
 ENTALB\*0  
 STRSR\*JVW  
 CMAL\*PAL1  
 JPNOT\*LOK+2

TEST FOR WIRE AND CONTROL

04330 34 4317 336  
 04331 10 5403 337  
 04332 46 5406 340  
 04333 44 5407 341  
 04334 50 5601 342  
 04335 42 5410 343  
 04336 12 5410 344  
 04337 50 5601 345

JP\*ATICK+1  
 ENTAU\*PAL1  
 STRAU\*DIP  
 STRAL\*DIP+1  
 STOP\*01  
 STRB\*HERE  
 ENTAL\*HERE  
 STOP\*01

04340 50 5020 346  
 04341 76 4225 347  
 04342 50 5001 350  
 04343 34 4317 351  
 04344 34 4304 352  
 04345 32 5377 354  
 04346 56 5400 355

HALTO  
 HALTO

SKP\*20  
 RJP\*PROOF  
 SKP\*01  
 JP\*ATICK+1  
 JP\*HALT  
 PROG\*CASEY\*9JUNE64  
 ENTB\*PAR  
 BSK\*PAR1

04347 34 4351 356  
 04350 34 4357 357  
 04351 76 4120 360  
 04352 12 5404 361  
 04353 50 7310 362  
 04354 45 0000 363  
 04355 75 5414 364  
 04356 34 4346 365

ALTO.

JP\*ALTO  
 JP\*ATOCK  
 RJP\*WIRE  
 ENTAL\*PALO  
 ENTSR\*10  
 STRALB\*0  
 STRSR\*JVW  
 JP\*HALTO+1

TEST FOR WIRE OR CONTROL

04357 32 5377 366  
 04360 56 5400 367  
 04361 34 4363 370  
 04362 34 4406 371  
 04363 76 4120 372  
 04364 50 7310 373

ATOCK

ENTB\*PAR  
 BSK\*PAR1  
 JP\*LOK+2  
 JP\*TWPO  
 RJP\*WIRE  
 ENTSR\*10

CHECK FOR WIRE AND CONTROL

04365	13	0000	374	ENTALB*0
04366	75	5414	375	STRSR*JVW
04367	02	5404	376	CMAL*PAL0
04370	63	4372	377	JPNOT*LOK+2
04371	34	4360	400	JP*ATOCK+1
04372	10	5404	401	ENTAU*PAL0
04373	46	5406	402	STRAU*DIP
04374	44	5407	403	STRAL*DIP+1
04375	50	5601	404	STOP*01
04376	42	5410	405	STRB*HERE
04377	12	5410	406	ENTAL*HERE
04400	50	5601	407	STOP*01
04401	50	5020	410	SKP*20
04402	76	4225	411	RJP*PROOF
04403	50	5001	412	SKP*01
04404	34	4360	413	JP*ATOCK+1
04405	34	4345	414	JP*HALT0
04406	32	5377	415	ENTB*PAR
04407	10	4564	416	ENTAU*AZEROS
04410	56	5400	417	BSK*PAR1
04411	34	4413	420	JP*LOK+2
04412	34	4463	421	JP*CHECK
04413	76	4120	422	RJP*WIRE
04414	42	4567	423	STRB*WORK+1
04415	36	0000	424	ENTBK*0
04416	12	4567	425	ENTAL*WORK+1
04417	52	4563	426	SLCL*TWP2
04420	03	4572	427	CMALB*TWPA
04421	61	4425	430	JPEQ*LOK+4
04422	56	4562	431	BSK*TWP1
04423	34	4420	432	JP*LOK-3
04424	34	4434	433	JP*TWP2
04425	42	4566	434	STRB*WORK
04426	12	4566	435	ENTAL*WORK
04427	50	4621	436	LSHAL*17D
04430	65	4433	437	JPALP*LOK+3

TWPG  
TWP1

04431	10	4564	440		ENTAU*AZEROS
04432	34	4434	441		JP*LOK+2
04433	10	4565	442		ENTAU*AONES
04434	32	4567	443	TWP2	ENTB*WORK+1
04435	50	7310	444		ENTSR*10
04436	47	0000	445		STRAUB*0
04437	47	0003	446		STRAUB*3
04440	47	0005	447		STRAUB*5
04441	47	0006	450		STRAUB*6
04442	75	5414	451		STRSR*JVW
04443	60	4446	452		JPAUZ*LOK+3
04444	10	4564	453		ENTAU*AZEROS
04445	34	4447	454		JP*LOK+2
04446	10	4565	455		ENTAU*AONES
04447	50	7310	456		ENTSR*10
04450	47	0001	457		STRAUB*1
04451	47	0002	460		STRAUB*2
04452	47	0004	461		STRAUB*4
04453	47	0007	462		STRAUB*7
04454	75	5414	463		STRSR*JVW
04455	37	0007	464		ENTBKB*7
04456	60	4461	465		JPAUZ*LOK+3
04457	10	4564	466		ENTAU*AZEROS
04460	34	4462	467		JP*LOK+2
04461	10	4565	470		ENTAU*AONES
04462	34	4410	471		JP*TWP1+1
04463	32	5377	472	CHECK	ENTB*PAR
04464	10	4564	473		ENTAU*AZEROS
04465	56	5400	474		BSK*PAR1
04466	34	4470	475		JP*LOK+2
04467	34	4560	476		JP*SWIT1
04470	76	4120	477		RJP*WIRE
04471	42	4567	500		STRB*WORK+1
04472	36	0000	501		ENTBK*0
04473	12	4567	502		ENTAL*WORK+1
04474	52	4563	503		SLCL*TWP2

04475	03	4572	504		CMALB*TWPA
04476	61	4502	505		JPEQ*LOK+4
04477	56	4562	506		BSK*TWP41
04500	34	4475	507		JP*LOK-3
04501	34	4511	510		JP*TWP4
04502	42	4566	511		STRB*WORK
04503	12	4566	512		ENTAL*WORK
04504	50	4621	513		LSHAL*170
04505	65	4510	514		JPALP*LOK+3
04506	10	4564	515		ENTAU*AZEROS
04507	34	4511	516		JP*LOK+2
04510	10	4565	517		ENTAU*AONES
04511	46	4570	520	TWP4	STRAU*CORPAT
04512	12	4567	521		ENTAL*WORK+1
04513	52	4571	522		SLCL*K7
04514	61	4527	523		JPALZ*TWP4A
04515	71	7774	524		ADDALK*7774
04516	61	4527	525		JPALZ*TWP4A
04517	71	7775	526		ADDALK*7775
04520	61	4527	527		JPALZ*TWP4A
04521	71	7776	530		ADDALK*7776
04522	61	4527	531		JPALZ*TWP4A
04523	60	4526	532		JPAUZ*LOK+3
04524	10	4564	533		ENTAU*AZEROS
04525	34	4527	534		JP*LOK+2
04526	10	4565	535		ENTAU*AONES
04527	50	4722	536	TWP4A	LSHA*180
04530	32	4567	537		ENTB*WORK+1
04531	50	7310	540		ENTSR*10
04532	03	0000	541		CMALB*0
04533	63	4537	542		JPNOT*TWP5
04534	75	5414	543		STRSR*JVW
04535	10	4570	544	TWP4B	ENTAU*CORPAT
04536	34	4465	545		JP*CHECK+2
04537	75	5414	546	TWP5	STRSR*JVW
04540	44	5406	547		STRAL*DIP

04541	50	7310	550		ENTSR*10
04542	11	0000	551		ENTAUB*0
04543	75	5414	552		STRSR*JVW
04544	46	5407	553		STRAU*DIP+1
04545	50	4722	554		LSHA*180
04546	50	5601	555		STOP*01
04547	42	5410	556		STRB*HERE
04550	42	5411	557		STRB*THERE
04551	12	5410	560		ENTAL*HERE
04552	50	5601	561		STOP*01
04553	50	5020	562		SKP*20
04554	76	4024	563		RJP*ERR0UT
04555	50	5001	564		SKP*1
04556	34	4535	565		JP*TWP4B
04557	34	4406	566		JP*TWPO
04560	76	5135	567	SWIT1	RJP*FLUSH1
04561	34	4617	570		JP*RWEX
04562	00	0025	571	TWPK1	25*
04563	00	7777	572	TWPK2	007777*
04564	00	0000	573	AZER0S	000000*
04565	77	7777	574	A0NES	777777*
04566	00	0000	575	WORK	000000*
04567	00	0000	576		000000*
04570	00	0000	577	CORPAT	000000*
04571	00	0007	600	K7	000007*
04572	00	0100	601	TWPA	000100*
04573	00	0200	602		000200*
04574	00	0300	603		000300*
04575	00	0500	604		000500*
04576	00	0600	605		000600*
04577	00	1700	606		001700*
04600	00	2400	607		002400*
04601	00	2500	610		002500*
04602	00	3000	611		003000*
04603	00	3300	612		003300*
04604	00	4200	613		004200*
04605	00	4400	614		004400*

04606	00	4500	615		004500*
04607	00	5200	616		005200*
04610	00	5300	617		005300*
04611	00	6300	620		006300*
04612	00	6500	621		006500*
04613	00	6600	622		006600*
04614	00	7000	623		007000*
04615	00	7100	624		007100*
04616	00	7700	625		007700*
			626		PROG*MUELLER*29SEPT64
04617	12	4646	627	RWEX	ENTAL*RWEX7
04620	44	4645	630		STRAL*RWEX4
04621	12	5377	631		ENTAL*PAR
04622	44	4644	632		STRAL*RWEX3
04623	12	4642	633	RWEX5	ENTAL*RWEX1
04624	44	4656	634		STRAL*RW21
04625	12	4643	635		ENTAL*RWEX2
04626	44	4703	636		STRAL*RW22
04627	57	4645	637		ISK*RWEX4
04630	34	4632	640		JP*RWEX6
04631	34	4763	641		JP*LAST
04632	12	4644	642	RWEX6	ENTAL*RWEX3
04633	71	0001	643		ADDALK*01
04634	44	4746	644		STRAL*RW14
04635	71	0777	645		ADDALK*0777
04636	44	4744	646		STRAL*RW12
04637	44	4644	647		STRAL*RWEX3
04640	76	4647	650		RJP*RW
04641	34	4623	651		JP*RWEX5
04642	44	7000	652	RWEX1	STRAL*IMAGE
04643	02	7000	653	RWEX2	CMAL*IMAGE
04644	00	0000	654	RWEX3	0*0
04645	00	0000	655	RWEX4	0*0
04646	00	0006	656	RWEX7	00*0006
			657	RW	PROG*CASEY*29JUNE64
04647	00	0000	660	RW	0*0

PRESET INCREMENT COUNT

SET UP LIMITS FOR  
RECYCLING BANK  
PRESTORE INST IN RW

PRESTORE INST IN RW

THROUGH

NO

YES

SET UP LOWER LIMIT OF TEST SEGMENT

SET UP UPPER LIMIT OF SEGMENT

SAVE FOR NEXT INCREMENT

04650	32 4746	661	RW1	ENTB*RW14
04651	76 4120	662	RW2	RJP*WIKE
04652	76 4750	663		RJP*RAN
04653	50 7310	664		ENTSR*10
04654	45 0000	665		STRALB*0
04655	75 5414	666		STRSR*JVW
04656	44 7000	667	RW21	STRAL*IMAGE
04657	12 4656	670		ENTAL*RW21
04660	71 0001	671		ADDALK*1
04661	44 4656	672		STRAL*RW21
04662	56 4744	673		BSK*RW12
04663	34 4651	674		JP*RW2
04664	32 4746	675		ENTB*RW14
04665	12 4742	676	RW3	ENTAL*RW10
04666	44 4743	677		STRAL*RW11
04667	50 7310	700	RW4	ENTSR*10
04670	13 0000	701		ENTALB*0
04671	75 5414	702		STRSR*JVW
04672	57 4743	703		ISK*RW11
04673	34 4667	704		JP*RW4
04674	56 4744	705		BSK*RW12
04675	34 4665	706		JP*RW3
04676	32 4746	707		ENTB*RW14
04677	76 4120	710		RJP*WIKE
04700	50 7310	711	RW6	ENTSR*10
04701	13 0000	712		ENTALB*0
04702	75 5414	713		STRSR*JVW
04703	02 7000	714	RW22	CMAL*IMAGE
04704	63 4713	715		JPNQT*RW20
04705	12 4703	716	RW07	ENTAL*RW22
04706	71 0001	717		ADDALK*1
04707	44 4703	720		STRAL*RW22
04710	56 4744	721	RW7	BSK*RW12
04711	34 4677	722		JP*RW6-1
04712	55 4647	723		IJP*RW
04713	12 4703	724	RW20	ENTAL*RW22

LOWER LIMIT TO B

TEST FOR CONTROL AND WIRED MEMORY  
GENERATE RANDOM NUMBER

STORE PATTERN

STORE IMAGE  
ADVANCE IMAGE ADDRESSNO  
YES  
RESTORE INDEX

READ WORD 40 TIMES

PATTERN COMPLETE

NO  
YES-VERIFY  
TEST FOR CONTROL AND WIRED MEMORYIS WORD CORRECT  
NO  
ADVANCE COMPARISON ADDRESS

YES-PATTERN COMPLETED

YES EXIT

04714	74	4715	725		STRADR*RW23	
04715	10	0000	726	RW23	ENTAU*0	ERROR CORRECT IN AU
04716	46	5406	727		STRAU*DIP	SAVE FOR TYPEOUT
04717	50	7310	730		ENTSR*10	
04720	13	0000	731		ENTALB*0	INCORRECT IN AL
04721	75	5414	732		STRSR*JVW	
04722	44	5407	733		STRAL*DIP+1	SAVE FOR TYPEOUT
04723	50	5601	734		STOP*01	SET STOP 0 FOR ERROR DISPLAY
04724	42	4745	735		STRB*RW13	FAILING ADDRESS TO AL
04725	12	4745	736		ENTAL*RW13	FOR DISPLAY
04726	44	5410	737		STRAL*HERE	SAVE FOR TYPEOUT
04727	44	5411	740		STRAL*THRE	ONE ADDRESS
04730	50	5601	741		STOP*01	SET STOP 0 TO DISPLAY FAILING ADD
04731	50	5020	742		SKP*20	SET SKIP 4 TO SUPPRESS TYPEOUTS
04732	76	4024	743		RJP*ERR0UT	NOT SET TYPEOUT
04733	50	5001	744		SKP*01	SET SKIP 0 TO REPEAT S/R
04734	34	4705	745		JP*RW07	NOT SET CONTINUE
04735	12	4642	746		ENTAL*RWEX1	RESET IMAGE STORAGE
04736	44	4656	747		STRAL*RW21	
04737	12	4643	750		ENTAL*RWEX2	
04740	44	4703	751		STRAL*RW22	
04741	34	4650	752		JP*RW1	
04742	00	0050	753	RW10	00*0050	
04743	00	0050	754	RW11	0*50	
04744	00	0777	755	RW12	0*777	
04745	00	0000	756	RW13	0*0	
04746	00	0000	757	RW14	0*0	
04747	00	0200	760	RW15	0*200	
			761	RAN	PROG*CASEY*29JUNE64	
04750	34	0000	762	RAN	JP*0	RANDOM NUMBER GENERATOR
04751	12	4761	763	RAN1	ENTAL*RAN2	
04752	24	4761	764		MULAL*RAN2	
04753	26	4762	765		DIVA*RAN3	
04754	62	4757	766		JPAUNZ*RAN4	
04755	44	4761	767		STRAL*RAN2	
04756	55	4750	770		IJP*RAN	STORE PATTERN



04757	46	4761	771	RAN4	STRAU*RAN2	
04760	55	4750	772		IJP*RAN	
04761	00	0703	773	RAN2	00*0703	
04762	37	7775	774	RAN3	37*7775	
			775		REMARK*ADDRESSING STRUCTURE TEST	
04763	12	5317	776	LAST	ENTAL*BLMN	BANK NUM WHERE MEMORY ENDS
04764	50	4614	777		LSHAL*120	
04765	14	5126	1000		ADDAL*LMSK	ACTUAL END OF MEMORY ADDR
04766	44	5132	1001		STRAL*LTEMPM	SAVE FOR LATER
04767	44	5125	1002		STRAL*LEND	SET END CHECK ADDR
04770	12	5321	1003		ENTAL*BANK	BANK NUM PROG IS IN
04771	50	4614	1004		LSHAL*120	REPOSITION AND
04772	44	5127	1005		STRAL*LTEMP	SAVE
04773	71	1447	1006		ADDALK*INT2-1	ACTUAL BEG-OF-PROG(-1)ADDR
04774	44	5131	1007		STRAL*LTEMP1	SAVE FOR LATER
04775	12	5127	1010		ENTAL*LTEMP	
04776	14	5126	1011		ADDAL*LMSK	ACTUAL END-OF-PROG BANK ADDR
04777	44	5130	1012		STRAL*LTEMPF	SAVE FOR LATER
05000	32	5130	1013		ENTB*LTEMPF	INIT B FOR STORING
05001	76	5017	1014		RJP*LASTR	STORE ADDR INTO CELLS BEYOND PROG
05002	12	5131	1015		ENTAL*LTEMP1	
05003	44	5125	1016		STRAL*LEND	RESET END CHECK ADDR
05004	36	0700	1017		ENTBK*0700	RESET B FOR STORING
05005	76	5017	1020		RJP*LASTR	STORE ADDR INTO CELLS BEFORE PROG
05006	12	5132	1021	LASTA	ENTAL*LTEMPM	
05007	44	5125	1022		STRAL*LEND	RESET END CHECK ADDR
05010	32	5130	1023		ENTB*LTEMPF	RESET B FOR CHECKING
05011	76	5030	1024		RJP*LACHK	CHECK CELLS AFTER PROGRAM
05012	12	5131	1025		ENTAL*LTEMP1	
05013	44	5125	1026		STRAL*LEND	RESET END CHECK ADDR
05014	36	0700	1027		ENTBK*0700	RESET B FOR CHECKING
05015	76	5030	1030		RJP*LACHK	CHECK CELLS BEFORE PROGRAM
05016	34	5133	1031		JP*FLUSH	THROUGH
05017	00	0000	1032	LASTR	0*0	
05020	42	5127	1033		STRB*LTEMP	
05021	12	5127	1034		ENTAL*LTEMP	ADDR TO BE STORED
05022	50	7310	1035		ENTSR*010	

05023 45 0000 1036  
 05024 75 5127 1037  
 05025 56 5125 1040  
 05026 34 5020 1041  
 05027 55 5017 1042  
 05030 00 0000 1043

LACHK

STRALB\*0000  
 STRSR\*LTEMP  
 BSK\*LEND  
 JP\*LASTR+1  
 IJP\*LASTR  
 0\*0

STORE OWN ADDR IN CELL

ENUF STORES DONE YET

NO

YES-EXIT

05031 50 7310 1044  
 05032 13 0000 1045  
 05033 75 5127 1046  
 05034 42 5127 1047  
 05035 02 5127 1050  
 05036 61 5117 1051  
 05037 10 5127 1052  
 05040 46 5123 1053

ENTSR\*010  
 ENTALB\*0000  
 STRSR\*LTEMP  
 STRB\*LTEMP  
 CMAL\*LTEMP  
 JPEQ\*LACHKC  
 ENTAU\*LTEMP  
 STRAU\*LCORR

CHECK CONTENTS WITH ADDRESS  
 CONTENTS OF CELL TO AL

CONTENTS AGREE WITH ADDRESS

YES

NO-CORRECT VALUE TO AU

05041 44 5124 1054  
 05042 50 5601 1055  
 05043 12 5127 1056  
 05044 44 5122 1057  
 05045 50 5601 1060  
 05046 50 5020 1061  
 05047 34 5051 1062  
 05050 34 5114 1063

STRAL\*LICORR  
 STOP\*01  
 ENTAL\*LTEMP  
 STRAL\*LADD  
 STOP\*01  
 SKP\*020  
 JP\*LOK+2  
 JP\*LACHKB

SAVE AU AND AL FOR TYPEOUT

STOP TO DISPLAY IF KEY 0

ADDRESS TO AL

SAVE FOR TYPEOUT

STOP TO DISPLAY IF KEY 0

SKIP 4 SET

NO

YES-SUPPRESS TYPEOUT

05051 44 4023 1064  
 05052 30 5053 1065  
 05053 00 5416  
 05054 76 4562  
 05055 62 2062  
 05056 76 4144  
 05057 44 6245  
 05060 63 6335

STRAL\*BAER  
 TYPT\*\$CR\$ERROR\$CR\$ADDRESS=

SET ERROR FLAG WITH ADDR(NEVER 0)

05061 77 7777  
 05062 30 5063 1066  
 05063 00 5652  
 05064 60 5122  
 05065 00 0000  
 05066 30 5067 1067

TYPC\*LADD

TYPT\* CORRECT=

05067 00 5416  
 05070 00 0000  
 05071 43 2062  
 05072 62 4543  
 05073 64 3577  
 05074 30 5075  
 05075 00 5652  
 05076 60 5123

1070

TYPC\*LCORR

05077 00 0000  
 05100 30 5101  
 05101 00 5416  
 05102 00 0000  
 05103 51 5643  
 05104 20 6262  
 05105 45 4364  
 05106 35 7777

1071

TYPT\* INCORRECT=

05107 30 5110  
 05110 00 5652  
 05111 60 5124  
 05112 00 0000  
 05113 50 5604  
 05114 50 5001  
 05115 34 5117  
 05116 34 4763

1072

TYPC\*LICORR

05117 56 5125  
 05120 34 5031  
 05121 55 5030  
 05122 00 0000  
 05123 00 0000  
 05124 00 0000  
 05125 00 0000  
 05126 00 7777

1077

LACHKC

BSK\*LEND

05127 00 0000  
 05130 00 0000  
 05131 00 0000  
 05132 00 0000

1107

LTEMP

000000\*

1110

LTEMPF

000000\*

1111

LTEMPI

000000\*

1112

LTEMPM

000000\*

LACHKB

STOP\*04

SKP\*01

JP\*L0K+2

JP\*LAST

LADD

000000\*

LCORR

000000\*

LICORR

000000\*

LEND

000000\*

LMSK

007777\*

STOP FF TYPEOUT IF KEY 2  
 SKIP 0 SET  
 NO  
 YES-RECYCLE TEST

ENUF CHECKS DONE YET

NO CHECK FOR CORRECT VMD MIM'D MEMORIS  
 YES-EXIT

HOLDS ADDRESS FOR TYPEOUT

HOLDS CORRECT DATA FOR TYPEOUT

HOLDS INCORRECT DATA FOR TYPEOUT

HOLDS TEMP END ADDR FOR CHECK

MASK

TEMP STORE

HOLDS ACTUAL END-OF-PR0G(+1)ADDR

HOLDS ACTUAL END-OF-MEM ADDR

HOLDS ACTUAL BEG-OF-PR0G(-1)ADDR

05133	76 5135	1113	FLUSH	PROG*CASEY*9JUNE64
		1114	FLUSH	RJP*FLUSH1
05134	34 5323	1115		JP*RELO
05135	00 0000	1116	FLUSH1	PROG*MUELLER*24 SEPT 64
05136	32 5377	1117	FLUSH1	0*0
05137	76 4120	1120		ENTB*PAR
05140	56 5400	1121		RJP*WIRE
05141	34 5143	1122		BSK*PAR1
05142	34 5150	1123		JP*LOK+2
		1124		JP*LOK+6
05143	12 5402	1125		ENTAL*PAT1
05144	50 7310	1126		ENTSR*10
05145	45 0000	1127		STRALB*0
05146	75 5414	1130		STRSR*JVW
05147	34 5137	1131		JP*FLUSH1+2
05150	32 5377	1132		ENTB*PAR
05151	76 4120	1133		RJP*WIRE
05152	56 5400	1134		BSK*PAR1
05153	34 5155	1135		JP*LOK+2
05154	55 5135	1136		IJP*FLUSH1
05155	50 7310	1137		ENTSR*10
05156	41 0000	1140		CLB*0
05157	75 5414	1141		STRSR*JVW
05160	34 5151	1142		JP*LOK-7
		1143	RSET	PROG*MUELLER*20 OCT 64
05161	12 5321	1144	RSET	ENTAL*BANK
05162	71 0001	1145		ADDALK*0001
05163	02 5317	1146		CMAL*BLMN
05164	63 5227	1147		JPNOT*RSET6
05165	44 5321	1150		STRAL*BANK
05166	50 4614	1151		LSHAL*14
05167	14 5225	1152		ADDAL*RSET5
05170	44 5222	1153		STRAL*RSET2
05171	40 5322	1154		CL*BANK1
05172	70 7776	1155		ENTALK*7776
05173	44 5377	1156		STRAL*PAR

W FLUSH MEMORY

DO NOT FLUSH MEMORY UNTIL  
 ALL TESTS HAVE BEEN COMPLETED  
 AND THE SYSTEM IS IN A  
 STABLE STATE. DO NOT FLUSH  
 MEMORY DURING A TEST.  
 SR ENTRANCE

CHECK FOR CONTROL AND WIRED MEMORY

CHECK FOR CONTROL AND WIRED MEMORY

REFERENCE BANK NUMBER

SETBANK TO BANK1  
 DID PRG JUST TEST LAST BANK  
 NO

BANK1 EQUAL TO NEXT TESTED BANK

SET LOWER LIMIT OF BANK ZERO

RSET1  
RSET2  
RSET3  
RSET4  
RSET5  
RSET12  
RSET6

251 06 COMER CIVIL LOB BAFEX  
251 06 COMER JESP CIVIL

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```

SET LOWER LIMIT FOR RWEX TEST
SET UPPER LIMIT FOR
BANK ZERO
INITIALIZE WIRE ROUTINE

```

INCREMENT THE VALUE FOR  
THE TRANSFER OF SR

CLEAR B FOR TRANSFER.  
TRANS PROG TO LAST BANK

NO CONTINUE TRANSFER  
YES GO TO TRANSFERRED PROGRAM

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

REFERENCE BANK NUMBER

IS PROGRAM IN LAST BANK?  
NO TRANSFER TO NEXT BANK  
YES TRANSFER PROG TO BANK ZERO  
BANK 01 TESTED NEXT FOR W/2 1271

SET UP SPECIAL REG FOR  
TRANS TO BANK ZERO

05240 12 5322 1223  
 05241 50 4614 1224  
 05242 71 7776 1225  
 05243 44 4644 1226  
 05244 44 5377 1227  
 05245 12 5377 1230

ENTAL\*BANK1  
 LSHAL\*14  
 ADDALK\*7776  
 STRAL\*RWEX3  
 STRAL\*PAR  
 EN TAL\*PAR

SET UP LOWER TEST LIMIT

SET UP LOWER LIMIT FOR RWEX TEST

SET UP LOWER LIMIT FOR RWEX TEST  
 SET UP LOWER LIMIT FOR RWEX TEST

SETUP UPPER TEST LIMIT

INITIALIZE WIRE ROUTINE

05246 14 5226 1231  
 05247 44 5400 1232  
 05250 12 5413 1233  
 05251 44 4121 1234  
 05252 70 0077 1235  
 05253 50 4722 1236  
 05254 12 5261 1237  
 05255 04 5320 1240

ADDAL\*RSET12  
 STRAL\*PAR1  
 EN TAL\*CHEET1  
 STRAL\*WIRE+1  
 ENTALK\*0077  
 LSHA\*22  
 EN TAL\*RSET7+1  
 SLSU\*SRBANK

INITIALIZE WIRE ROUTINE

INITIALIZE WIRE ROUTINE  
 INITIALIZE WIRE ROUTINE

05256 44 5261 1241  
 05257 36 0700 1242  
 05260 13 0000 1243  
 05261 50 7300 1244  
 05262 45 0000 1245  
 05263 75 5320 1246  
 05264 56 5405 1247  
 05265 34 5260 1250

STRAL\*RSET7+1  
 ENTBK\*7000  
 EN TALB\*0  
 ENTSR\*0  
 STRALB\*0  
 STRSR\*SRBANK  
 BSK\*TOTAL  
 JP\*RSET7

INIT B FOR TRANSFER

INIT B FOR TRANSFER  
 INIT B FOR TRANSFER

05266 55 5267 1251  
 05267 00 3763 1252  
 05270 71 0001 1253  
 05271 44 5321 1254  
 05272 71 0001 1255  
 05273 44 5322 1256  
 05274 12 5320 1257  
 05275 71 0001 1260

RSET7  
 RSET10  
 RSET11

IJP\*RSET10  
 0\*HEAD1  
 ADDALK\*0001  
 STRAL\*BANK  
 ADDALK\*0001  
 STRAL\*BANK1  
 EN TAL\*SRBANK  
 ADDALK\*0001  
 STRAL\*SRBANK

SET UP BANK EQUAL TO NEXT PROG AREA

SET BANK1 EQUAL TO NEXT TEST AREA  
 SET SRBANK FOR TRANSFER TO NEXT BANK

05276 51 5224 1261  
 05277 44 5320 1262  
 05300 12 5322 1263  
 05301 50 4614 1264  
 05302 71 7776 1265  
 05303 44 4644 1266  
 05304 44 5377 1267

SLSET\*RSET4  
 STRAL\*SRBANK  
 EN TAL\*BANK1  
 LSHAL\*14  
 ADDALK\*7776  
 STRAL\*RWEX3  
 STRAL\*PAR

SET UP LOWER TEST LIMIT  
 SET UP LOWER LIMIT FOR RWEX

SHEET 857  
 53-10463  
 REVISION

SET UP UPPER TEST LIMIT

INITIALIZE WIRE ROUTINE

SET UP IJP

TRANSFER

UPPER BANK NUMBER LIMIT STORAGE

STORAGE FOR SPECIAL REGISTER

STORAGE FOR LOCATION OF RUNNING PROGRAM

STORAGE FOR LOCATION OF TESTED BANK

SET STOP KEY1 TO STOP AT END OF THIS PORT

SET SKIP KEY 1 TO RETEST BANK

RETEST THIS BANK

SET UP BUFFER LIMITS

FOR PROGRAM AFTER TRANSFER

05305	12	5377	1270
05306	14	5226	1271
05307	44	5400	1272
05310	12	5413	1273
05311	44	4121	1274
05312	12	5321	1275
05313	50	4614	1276
05314	14	5225	1277
05315	44	5222	1300
05316	34	5205	1301
05317	00	0000	1302
05320	00	0000	1303
05321	00	0000	1304
05322	00	0001	1305
05323	50	5602	1306
05324	50	5002	1307
05325	34	5327	1310
05326	34	4165	1311
05327	10	5376	1312
05330	12	5322	1313
05331	50	4614	1314
05332	44	5375	1315
05333	04	5466	1316
05334	44	5466	1317
05335	04	5467	1320
05336	44	5467	1321
05337	04	5475	1322
05340	44	5475	1323
05341	04	5476	1324
05342	44	5476	1325
05343	04	5767	1326
05344	44	5767	1327
05345	04	5770	1330
05346	44	5770	1331
05347	04	6000	1332
05350	44	6000	1333

ENTAL*PAR
ADDAL*RSET12
STRAL*PAR1
ENTAL*CHEET1
STRAL*WIRE+1
ENTAL*BANK
LSHAL*14

ADDAL*RSETS
STRAL*RSET2
JP*RSET1-6
0*0
0*0
0*0
00*0001
STOP*02

BLMN
SRBANK
BANK
BANK1
RELO

SKP*02
JP*LOK+2
JP*TEST
ENTAU*RELO2
ENTAL*BANK1
LSHAL*14
STRAL*RELO1
SLSU*T\$1+1

STRAL*T\$1+1
SLSU*T\$1+2
STRAL*T\$1+2
SLSU*T\$2+1
STRAL*T\$2+1
SLSU*T\$2+2
STRAL*T\$2+2
SLSU*T\$1+1

STRAL*T\$1+1
SLSU*T\$1+2
STRAL*T\$1+2
SLSU*T\$2+1
STRAL*T\$2+1

05351	04 6001	1334		SLSU*TL2+2
05352	44 6001	1335		STRAL*TL2+2
05353	04 4063	1336		SLSU*TL1+3
05354	44 4063	1337		STRAL*TL1+3
05355	04 4072	1340		SLSU*TL1+12
05356	44 4072	1341		STRAL*TL1+12
05357	04 4107	1342		SLSU*TL2+2
05360	44 4107	1343		STRAL*TL2+2
05361	04 4113	1344		SLSU*TL2+6
05362	44 4113	1345		STRAL*TL2+6
05363	04 3754	1346		SLSU*HEAD+1
05364	44 3754	1347		STRAL*HEAD+1
05365	44 3777	1350		STRAL*HEAD2+1
05366	44 4013	1351		STRAL*RECYL+1
05367	44 4030	1352		STRAL*ERR1+1
05370	44 4035	1353		STRAL*ERR2+1
05371	04 4061	1354		SLSU*TL1+1
05372	44 4061	1355		STRAL*TL1+1
05373	44 4106	1356		STRAL*TL2+1
05374	34 5161	1357		JP*RSET
05375	00 0000	1360	REL01	00*0000
05376	70 7777	1361	REL02	70*7777
05377	00 3434	1362	PAR	0*3434
05400	01 7777	1363	PAR1	01*7777
05401	00 0000	1364	PAT	0*0
05402	77 7777	1365	PAT1	77*7777
05403	52 5252	1366	PAL1	52*5252
05404	25 2525	1367	PAL0	25*2525
05405	00 7777	1370	TOTAL	00*7777
05406	00 0000	1371	DIP	0*0
05407	00 0000	1372		0*0
05410	00 0000	1373	HERE	0*0
05411	00 0000	1374	THERE	0*0
05412	42 4156	1375	CHEET	STRB*WARE1
05413	55 4120	1376	CHEET1	IJP*WIKE
05414	00 0000	1377	JVW	00*0000

TRANSFER PROG TO NEXT BANK

STORAGE

MASK

INSTRUCTIONS USED  
IN WIRE ROUTINE



05415	00	0000	1400	ALPARM	0*
			1401		REMARK*TYPT FOR 1232 OR 1532
05416	00	0000	1402	TYPT	0*
05417	75	5460	1403		STRSR*T\$PT20
05420	46	5506	1404		STRAU*T\$PT3
05421	44	5507	1405		STRAL*T\$PT4
05422	42	5510	1406		STRB*T\$PT5
05423	70	0003	1407		ENTALK*3
05424	76	5471	1410		RJP*T\$PT12
05425	32	5416	1411	T\$PT1	ENTB*TYPT
05426	37	0001	1412		ENTBKB*1
05427	42	5416	1413		STRB*TYPT
05430	50	7310	1414		ENTSR*10
05431	11	0000	1415		ENTAUB*0
05432	50	7300	1416		ENTSR*0
05433	36	0002	1417		ENTBK*2
05434	70	0000	1420	T\$PT2	ENTALK*0
05435	50	4706	1421		LSHA*6
05436	02	5511	1422		CMAL*T\$PT6
05437	61	5451	1423		JPEQ*T\$PT22
05440	71	0040	1424	RN00P	ADDALK*40
05441	02	5547	1425		CMAL*M136
05442	63	5446	1426		JPNOT*LOK+4
05443	70	0015	1427		ENTALK*15
05444	76	5462	1430		RJP*T\$PT7
05445	70	0012	1431		ENTALK*12
05446	76	5462	1432		RJP*T\$PT7
05447	73	5434	1433	T\$PT21	BJP*T\$PT2
05450	34	5425	1434		JP*T\$PT1
05451	70	0001	1435	T\$PT22	ENTALK*1
05452	76	5471	1436		RJP*T\$PT12
05453	14	5416	1437		ADDAL*TYPT
05454	44	5416	1440		STRAL*TYPT
05455	10	5506	1441		ENTAU*T\$PT3
05456	12	5507	1442		ENTAL*T\$PT4
05457	32	5510	1443		ENTB*T\$PT5

MODIFIED TO RJP\*CONVER IF 1232 SELECTED F  
CR-LF?

NO  
CR

LF

SHEET 860 REVISION  
SS-10163

05460	50	7300	1444	T\$PT20	ENTSR*0
05461	55	5416	1445		IJP*TYPT
05462	00	0000	1446	T\$PT7	0*
05463	76	5500	1447		RJP*T\$PT13
05464	44	5513	1450		STRAL*T\$PT11
05465	50	1200	1451	T\$1	BUFOUT*CHAN*AD*1*T\$PT11
05466	00	5513			
05467	00	5513			
05470	55	5462	1452		IJP*T\$PT7
05471	00	0000	1453	T\$PT12	0*
05472	76	5500	1454		RJP*T\$PT13
05473	44	5513	1455		STRAL*T\$PT11
05474	50	1300	1456	T\$2	EXFCT*CHAN*AD*1*T\$PT11
05475	00	5513			
05476	00	5513			
05477	55	5471	1457		IJP*T\$PT12
05500	00	0000	1460	T\$PT13	0*
05501	50	2300	1461	T\$3	SKPFIN*CHAN
05502	34	5501	1462		JP*LOK-1
05503	50	2200	1463	T\$4	SKPOIN*CHAN
05504	34	5503	1464		JP*LOK-1
05505	55	5500	1465		IJP*T\$PT13
05506	00	0000	1466	T\$PT3	0*
05507	00	0000	1467	T\$PT4	0*
05510	00	0000	1470	T\$PT5	0*
05511	00	0077	1471	T\$PT6	77*
05512	00	0136	1472	T\$PT61	0*136
05513	00	0000	1473	T\$PT11	0*
05514	00	0000	1474	CONVER	0*
05515	42	5544	1475		STRB*COUNTR
05516	36	0000	1476		ENTBK*0
05517	71	0040	1477		ADDALK*40
05520	02	5547	1500		CMAL*M136
05521	63	5526	1501		JPNOT*LOK+5
05522	70	0004	1502		ENTALK*4
05523	76	5462	1503		RJP*T\$PT7
05524	70	0003	1504		ENTALK*3

ADD ASCII BIAS  
CR-LF  
NO  
CR  
LF

05525	34	5542	1505		JP*CONV3
05526	44	5550	1506		STRAL*MDUM
05527	13	5551	1507	CONV1	ENTALB*CONST
05530	52	5545	1510		SLCL*CT177
05531	50	4211	1511		RSHAL*90
05532	02	5550	1512		CMAL*MDUM
05533	61	5540	1513		JPEG*CONV2
05534	56	5546	1514		BSK*M76
05535	34	5527	1515		JP*CONV1
05536	12	5550	1516		ENTAL*MDUM
05537	50	5640	1517		STOP*40
05540	13	5551	1520	CONV2	ENTALB*CONST
05541	52	5511	1521		SLCL*TSPT6
05542	32	5544	1522	CONV3	ENTB*COUNTR
05543	55	5514	1523		IJP*CONVER
05544	00	0000	1524	COUNTR	0*
05545	17	7000	1525	CT177	177000*
05546	00	0100	1526	M76	000100*
05547	00	0136	1527	M136	000136*
05550	00	0000	1530	MDUM	0*
05551	10	1006	1531	CONST	101006*
05552	10	2007	1532		102007*
05553	10	3010	1533		103010*
05554	10	4011	1534		104011*
05555	10	5012	1535		105012*
05556	10	6013	1536		106013*
05557	10	7014	1537		107014*
05560	11	0015	1540		110015*
05561	11	1016	1541		111016*
05562	11	2017	1542		112017*
05563	11	3020	1543		113020*
05564	11	4021	1544		114021*
05565	11	5022	1545		115022*
05566	11	6023	1546		116023*
05567	11	7024	1547		117024*
05570	12	0025	1550		120025*

05571	12 1026	1551
05572	12 2027	1552
05573	12 3030	1553
05574	12 4031	1554
05575	12 5032	1555
05576	12 6033	1556
05577	12 7034	1557
05600	13 0035	1560
05601	13 1036	1561
05602	13 2037	1562
05603	01 5004	1563
05604	01 2003	1564
05605	13 7076	1565
05606	05 2050	1566
05607	04 7072	1567
05610	05 6075	1570
05611	04 0005	1571
05612	17 7077	1572
05613	06 0060	1573
05614	06 1061	1574
05615	06 2062	1575
05616	06 3063	1576
05617	06 4064	1577
05620	06 5065	1600
05621	06 6066	1601
05622	06 7067	1602
05623	07 0070	1603
05624	07 1071	1604
05625	05 0051	1605
05626	05 1040	1606
05627	05 3042	1607
05630	05 4056	1610
05631	05 5041	1611
05632	05 7074	1612
05633	07 2053	1613
05634	07 3073	1614

121026*
122027*
123030*
124031*
125032*
126033*
127034*
130035*
131036*
132037*
015004*
012003*
137076*
052050*
047072*
056075*
040005*
177077*
060060*
061061*
062062*
063063*
064064*
065065*
066066*
067067*
070070*
071071*
050051*
051040*
053042*
054056*
055041*
057074*
072053*
073073*

05635 07 4043 1615  
 05636 07 5044 1616  
 05637 07 6045 1617  
 05640 07 7054 1620  
 05641 10 0057 1621  
 05642 04 4047 1622  
 05643 05 2050 1623  
 05644 13 5046 1624  
 05645 13 4001 1625  
 05646 04 5002 1626  
 05647 04 2052 1627  
 05650 04 1055 1630  
 05651 13 6050 1631  
 1632  
 05652 00 0000 1633  
 05653 75 5743 1634  
 05654 46 5745 1635  
 05655 44 5746 1636  
 1637  
 05656 42 5747 1637  
 05657 70 0003 1640  
 05660 76 5774 1641  
 05661 32 5652 1642  
 05662 37 0001 1643  
 05663 42 5652 1644  
 05664 50 5710 1645  
 05665 11 0000 1646  
 05666 50 5730 1647  
 05667 70 0000 1650  
 05670 50 4703 1651  
 05671 61 5735 1652  
 05672 44 5750 1653  
 05673 32 5750 1654  
 05674 35 5674 1655  
 05675 34 5712 1656  
 1657  
 05676 34 5724 1657  
 05677 34 5730 1660

074043\*  
 075044\*  
 076045\*  
 077054\*  
 100057\*  
 044047\*  
 052050\*  
 135046\*  
 134001\*  
 045002\*  
 042052\*  
 041055\*  
 136050\*  
 REMARK\*TYPC FOR 1232 OR 1532  
 0\*  
 STRSR\*TSPC20  
 STRAU\*TSPC12  
 STRAL\*TSPC13  
 STRB\*TSPC14  
 ENTALK\*3  
 RJP\*TSRG24  
 ENTB\*TYPC  
 ENTBKB\*1  
 STRB\*TYPC0  
 ENTSR\*10  
 ENTAUB\*0  
 ENTSR\*0+TD  
 ENTALK\*0  
 LSMA\*3T\*PC15  
 JPALZ\*TSPC11  
 STRAL\*TSPC15  
 ENTB\*TSPC15  
 JPB\*TSPC2  
 JP\*TSPC3  
 JP\*TSPC4  
 JP\*TSPC6

ENABLE KEYBOARD  
 ADVANCE EXIT ADDR

NEXT CODE WORD TO AU  
 CLR SR ACTIVE

CODE DIGIT TO AL  
 ALL DONE IF ZERO  
 TEMP STORE

KYBD COMMAND

A  
 A UPPER

05700 34 5726 1661  
 05701 34 5732 1662  
 05702 70 0000 1663  
 05703 50 4717 1664  
 05704 44 5750 1665  
 05705 32 5750 1666  
 05706 50 7310 1667  
 05707 11 0000 1670  
 05710 50 7300 1671  
 05711 34 5733 1672  
 05712 70 0000 1673  
 05713 50 4717 1674  
 05714 61 5722 1675  
 05715 70 0015 1676  
 05716 76 5763 1677  
 05717 70 0012 1700  
 05720 76 5763 1701  
 05721 34 5661 1702  
 05722 70 0040 1703  
 05723 34 5720 1704  
 05724 10 5745 1705  
 05725 76 5751 1706  
 05726 10 5746 1707  
 05727 34 5733 1710  
 05730 10 5745 1711  
 05731 34 5733 1712  
 05732 10 5747 1713  
 05733 76 5751 1714  
 05734 34 5661 1715  
 05735 70 0001 1716  
 05736 14 5652 1717  
 05737 44 5652 1720  
 05740 10 5745 1721  
 05741 12 5746 1722  
 05742 32 5747 1723  
 05743 50 7300 1724

JP\*T\$PC5  
 JP\*T\$PC7  
 ENTALK\*0  
 LSHA\*17  
 STRAL\*T\$PC15  
 ENTB\*T\$PC15  
 ENTSR\*10  
 ENTAUB\*0  
 ENTSR\*0  
 JP\*T\$PC10  
 ENTALK\*0  
 LSHA\*150  
 JPALZ\*T\$PCSP  
 ENTALK\*15  
 RJP\*T\$PC21  
 ENTALK\*12  
 RJP\*T\$PC21  
 JP\*T\$PC1  
 ENTALK\*40  
 JP\*LOK-3  
 T\$PC4 ENT AU\*T\$PC12  
 RJP\*T\$PC16  
 T\$PC5 ENT AU\*T\$PC13  
 JP\*T\$PC10  
 T\$PC6 ENT AU\*T\$PC12  
 JP\*T\$PC10  
 T\$PC7 ENT AU\*T\$PC14  
 T\$PC10 RJP\*T\$PC16  
 JP\*T\$PC1  
 T\$PC11 ENTALK\*1  
 ADDAL\*TYPC  
 STRAL\*TYPC  
 ENT AU\*T\$PC12  
 ENTAL\*T\$PC13  
 ENTB\*T\$PC14  
 T\$PC20 ENTSR\*0

A LOWER  
 B  
 Y  
 CONTENTS OF Y  
 CONV 6 OCT DIGITS TO KYBD CD-TYPE

05744	55	5852	1725	
05745	00	0000	1726	T\$PC12
05746	00	0000	1727	T\$PC13
05747	00	0000	1730	T\$PC14
05750	00	0000	1731	T\$PC15
05751	00	0000	1732	T\$PC16
05752	70	0005	1733	
05753	44	5750	1734	
05754	70	0000	1735	T\$PC17
05755	50	4703	1736	
05756	71	0060	1737	
05757	76	5763	1740	
05760	57	5750	1741	
05761	34	5754	1742	
05762	55	5751	1743	
05763	00	0000	1744	T\$PC21
05764	76	6004	1745	
05765	44	5773	1746	
05766	50	1200	1747	T\$51
05767	00	5773		
05770	00	5773		
05771	76	6004	1750	
05772	55	5763	1751	
05773	00	0000	1752	T\$PC23
05774	00	0000	1753	T\$PC24
05775	76	6004	1754	
05776	44	5773	1755	
05777	50	1300	1756	T\$52
06000	00	5773		
06001	00	5773		
06002	76	6004	1757	
06003	55	5774	1760	
06004	00	0000	1761	T\$PC25
06005	50	2300	1762	T\$53
06006	34	6005	1763	
06007	50	2200	1764	T\$54
06010	34	6007	1765	

```

IJP*T$PC17  
0*  
0*  
0*  
0*  
0*  
ENTALK*5  
STRAL*T$PC15  
ENTALK*0  
LSHA*3  
ADDALK*60  
RJP*T$PC21  
ISK*T$PC15  
JP*T$PC17  
IJP*T$PC16  
0*  
RUP*T$PC25  
STRAL*T$PC23  
BUFOUT*CHAN*AD*1*T$PC23  
RJP*T$PC25  
IJP*T$PC21  
0*  
0*  
RJP*T$PC25  
STRAL*T$PC23  
EXECT*CHAN*AD*1*T$PC23  
RJP*T$PC25  
IJP*T$PC24  
0*  
SKPF IN*CHAN  
JP*LOK-1  
SKPOIN*CHAN  
JP*LOK-1

```

CONVERT-TYPE 600CL DIGITS 1400 1902

MAKE FIELD DATA DIGIT  
TYPE IT  
ARE 6 TYPED  
NO

YES  
SEND KYBD CODE IN AL

DO KYBU FCT CODE

WALTON ACT-ECT-DATA BUFS

00011 55 6004 1766

00012 00 0000 1767

00013 12 5415 1770

00014 50 4203 1771

00015 32 6103 1772

00016 10 8104 1773

00017 04 5465 1777

00018 44 5465 2000

00019 04 5474 2001

00020 44 5474 2002

00021 04 5501 2003

00022 44 5501 2004

00023 04 5503 2005

00024 44 5503 2006

00025 04 5766 2007

00026 44 5766 2010

00027 04 5777 2011

00028 44 5777 2012

00029 04 6005 2013

00030 44 6005 2014

00031 04 6007 2015

00032 44 6007 2016

00033 12 5415 2017

00034 50 4612 2020

00035 32 6105 2021

00036 74 6043 2022

00037 36 0000 2023

00038 13 6055 2024

00039 04 5440 2025

00040 13 6057 2026

00041 44 5715 2027

00042 13 6061 2030

00043 44 5717 2031

TYPE

IJP\*TSRC25

REMARK\*INSERT SELECTED I/O CHANNEL NUMBER

REMARK\*IN ALL I/O COMMANDS.

REMARK\*MODIFY FOR 1232/1532 INTERCHANGE

0\*

ENTAL\*ALPARM

RSHAL\*3

INITIAL AL INPUT PARAMETER  
CHANNEL NO. TO BITS 5-0

000037

777700

SLCL\*K1

ENTAU\*K2

SLSU\*TS1

STRAL\*TS1

SLSU\*TS2

STRAL\*TS2

SLSU\*TS3

STRAL\*TS3

SLSU\*TS4

STRAL\*TS4

SLSU\*TS\$1

STRAL\*TS\$1

SLSU\*TS\$2

STRAL\*TS\$2

SLSU\*TS\$3

STRAL\*TS\$3

SLSU\*TS\$4

STRAL\*TS\$4

ENTAL\*ALPARM

RSHAL\*100

SLCL\*K3

STRADR\*LOK+1

ENTBK\*0

ENTALB\*TYPE1

STRAL\*RN00P

ENTALB\*TYPE1+2

STRAL\*TS\$51

ENTALB\*TYPE1+4

STRAL\*TS\$52

INITIAL AL INPUT PARAMETER  
1232/1532 BIT TO BIT 0

000001

B IS 0 FOR 1232, 1 FOR 1532  
TABLE OF MODIFIED INSTRUCTIONS



06052 13 6063 2032  
 06053 44 5722 2033  
 06054 55 6012 2034  
 06055 76 5514 2036  
 06056 71 0040 2037  
 06057 70 0004 2040  
 06060 70 0015 2041  
 06061 70 0003 2042  
 06062 70 0012 2043  
 06063 70 0005 2044  
 06064 70 0040 2045  
 06065 00 0000 2047  
 06066 12 5467 2050  
 06067 71 0001 2051  
 06070 44 5466 2052  
 06071 12 5476 2053  
 06072 71 0001 2054  
 06073 44 5475 2055  
 06074 12 5770 2056  
 06075 71 0001 2057  
 06076 44 5767 2060  
 06077 12 6001 2061  
 06100 71 0001 2062  
 06101 44 6000 2063  
 06102 55 6065 2064  
 06103 00 0037 2065  
 06104 77 7700 2066  
 06105 00 0001 2067  
 07000 50 4700 2070

TYPE1

IOSET

K1

K2

K3

IMAGE

ENTALB\*TYPE1+6

STRAL\*T\$PCSP

IJP\*TYPE

REMARK\*TABLE OF 1232/1532 MODIFIED INSTRUCTIONS

RJP\*CONVER

ADDALK\*40

ENTALK\*04

ENTALK\*15

ENTALK\*03

ENTALK\*12

ENTALK\*05

ENTALK\*40

REMARK\*MODIFY OUTPUT AND EXF BUFFERS FOR N+1 TERMINATION

0\*

ENTAL\*T\$1+2

ADDALK\*1

STRAL\*T\$1+1

ENTAL\*T\$2+2

ADDALK\*1

STRAL\*T\$2+1

ENTAL\*T\$1+2

ADDALK\*1

STRAL\*T\$1+1

ENTAL\*T\$2+2

ADDALK\*1

STRAL\*T\$2+1

IJP\*IOSET

000037\*

777700\*

000001\*

RES\*1000

IMAGE AREA